

CURRICULUM VITAE

SIMEON AGATHOPOULOS

Diploma of Chemistry, Ph.D. of Chemical Engineering

Professor of “Ceramics Technology”

in the Dept. of Materials Science and Engineering of the University of Ioannina, Greece

Born : 31 January 1966, Athens, Greece
Citizenship : Greek
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Education, Research and Professional Experience:

1971-1983 : Basic studies, Athens, Greece.
1983-1988 : Dept. of Chemistry, University of Patras, Greece.
1989-1994 : Doctoral Thesis in Chemical Engineering Dept., University of Patras.
Lab. of Physical Metallurgy, Greece
1994-1996 : Post-Doctoral in Joint Research Centre,
Institute for Advanced Materials, Petten, The Netherlands.
1999-2005 : Post-Doctoral Researcher in Dept. of Ceramic and Glass Engineering,
University of Aveiro, Portugal.
2005-2006 : Assistant Professor (temporary), Dept. of Materials Science and Technology
University of Ioannina, Greece.
2006-2008 : Excellent Scientist invited by the Dept. of Materials Science and Technology
University of Ioannina, Greece for the European Project ENTER.
2009-2013 : Assistant Professor of “Ceramics Technology”
Dept. of Materials Science and Engineering, University of Ioannina, Greece.
2013-2018 : Associate Professor of “Ceramics Technology”
Dept. of Materials Science and Engineering, University of Ioannina, Greece.
2018- : Professor of “Ceramics Technology”
Dept. of Materials Science and Engineering, University of Ioannina, Greece.

Military service:

1997-1998 : Greek Navy Force

Fellowships:

- 1989-1993 : Post graduate researcher of Institute of Chemical Engineering and High Temperature Chemical Processes, (ICE/HT), Patras.
- 1994-1996 : Post-Doctoral Researcher of Human Capital and Mobility, J.R.C., Inst. for Advanced Materials (IAM), Petten, The Netherlands.
- 1999-2000 : Post-Doctoral Researcher of University of Aveiro, Portugal.
- 2000-2005 : Post-Doctoral Researcher of the Portuguese Foundation of Science and Technology ("FCT"), Portugal.
- 2006-2008 : Project of Introducing Ph.D. Researchers from Abroad in the Greek R & D System (ENTER), Greek General Secretariat of Research and Technology, and European Union.

Honours:

- 1996 : Excellent Scientist (by the Greek Ministry of National Defence).
- 2005 : Chair of the Session "Synthesis and Manufacturing" of the Symposium "S11-Bioceramics: Materials and Applications" of the 107th Annual Meeting & Exposition of the American Ceramic Society, Baltimore, MD, USA, April 10-13, 2005.
- 2006: Member of the International Advisory Committee of the Fifth China International Conference on High-Performance Ceramics, Changsha, China, May 10-13, 2007.
- 2007: Chair of Wetting Session of the 5th High Temperature Capillarity (HTC-2007) Congress, Alicante Spain, March 21-24, 2007.
- 2009: Organization (with Prof. P. Nikolopoulos) of the 6th International High Temperature Capillarity (HTC-2009) Conference, Athens, Greece, May 6-9, 2009.
- 2009: Member of the Local Organizing Committee of the Workshop of the Greek Metallurgy Association and the Greek Ceramic Association, Metal-Ceramics for Advanced Technologies, Ioannina, April 3, 2009.
- 2009: Member of the Scientific Board of the First International Ceramic, Glass, Enamel, Glaze and Pigment Congress, SERES 09, Anadolu University, Yunussemre Campus, Congress Centre, Eskisehir, October 12-14, 2009.
- 2010: Chairman of the 4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMPIO), Ioannina, 4-6 June, 2010.
- 2010: Chairing of the Session "Electroceramics", Workshop of the Greek Scientific Society of Ceramics, University of Ioannina, 29 September, 2010.
- 2011: Member of the Organizing and Scientific Committee of the 10th International Workshop on Biomedical Engineering, Kos, 5-7 October 2011.
- 2011: Member of the International Advisory Committee of the Seventh China International Conference on High-Performance Ceramics, Xiamen, China, November 4-7, 2011.
- 2012: Member (Secretary) of the International Scientific Committee of "High Temperature Capillarity" (HTC).
- 2012: President of the Greek (Hellenic) Society of Biomechanics (ELEMPIO), 2013-2014.
- 2015: President of the International Scientific Committee of "High Temperature Capillarity" (HTC).

2016: Member of the Scientific and Organizing Committee of the 6th Greek Conference of Metallic Materials, Ioannina, 7-9 December, 2016.

2017: Vice President of the Greek Society of Ceramic Materials (EKE).

Conferences' organization:

- Organization (with Prof. P. Nikolopoulos) of the 6th International High Temperature Capillarity (HTC-2009) Conference, Athens, Greece, May 6-9, 2009.
- Organization of the 4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010.

Research Interests:

His research is in the area of ceramics, glasses, glass-ceramics and composites for biomedical, functional and structural applications. Specifically:

1. Advanced and traditional ceramics (preparation methods, mechanical and thermal properties, surface characterization).
2. Bioceramics, biomaterials and tissue engineering scaffolds (development and synthesis of ceramics applied in biomedicine, biocompatibility).
3. Interfaces of ceramics with biological liquids or liquid metals at high temperatures, (wettability, work of adhesion, interfacial energy), and ceramic-metal composites (joining techniques, brazing).

Member of Scientific Societies:

1. The Greek Chemistry Society
2. The Hellenic Ceramic Society - The European Ceramic Society
3. The American Ceramic Society, (Engineering Ceramics Division).
4. European Society for Biomaterials
5. International Society for Ceramics in Medicine (ISCM).
6. Hellenic Society of Biomechanics (member of the Assembly, 2010-), (which is associated member of the International Society of Biomechanics)
7. Hellenic Society of Biomaterials (which is associated member of the European Society of Biomaterials).
8. Hellenic Society of Metal Materials (which is associated member of FEMS).
9. Marie Curie Fellowship Association - The Greek and Portuguese branches of M.C.F.A.
10. National Institute of Ceramic Engineers (NICE) of USA.
11. International Scientific Society of the "High Temperature Capillarity" (HTC).

Participation in European and National Research Projects:

1. EUREKA (EU-294):
Biomaterials, medical materials (main researcher).
2. SCIENCE (SCI-0384-C):
The influence of oxygen on the interfaces formed between metals and oxide ceramics.
3. JOULE (JOU2-CT92-0063):
New SOFC materials and technology.
4. HUMAN CAPITAL AND MOBILITY (No 950153):
The kinetics of active metal braze spreading of ceramics (main researcher).
5. PORTUGUESE FOUNDATION OF SCIENCE & TECHNOLOGY (SFRH/1619/2000):
 - (a) Determination of Interfacial Interactions between Ceramic Oxides and Other Phases, with relevance to Biomedical Applications.
 - (b) Fabrication of short mullite fibres from kaolin to reinforce CMC bioceramic materials.
 - (c) Production and characterization of novel materials which involve ceramics and glasses for advanced applications with relevance to biomedicine and environmentally friendly aims.
6. UNIVERSITY OF AVEIRO:
 - (a) Biosensors made of zirconia and Ti-alloys.
 - (b) Composite scaffolds for bone tissue engineering (Institute for Investigation, I & DT Projects for Health Science and Technology 2002, budget 99.900 €, duration: 36 months).
7. PYTHAGORAS (II YP.14):
Development of bioactive and bio-mimetic inorganic materials via sol-gel method and surface bio-activation of glasses and glass-ceramics. (Financially supported by the Greek Minister of Education; duration: 9 months).
8. ENTER (04EP26):
Development of new ceramic and glass materials for dental applications (main researcher). (Carried out in the Department of Materials Science and Technology, University of Ioannina, Greece; Financially supported by the Greek General Secretariat of Research and Technology and the European Union; budget 78.000 €; duration: 24 months).
9. RESEARCH COMMITTEE OF THE UNIVERSITY OF IOANNINA (Code 80000):
Hydrogen storage materials for solar energy applications. 01/11/07-28/02/08. Sponsored by Innova Technolgy Solutions SRL.
10. THALIS (Code 668 or NTUA202):
Development of ceramic-matrix composite nano-materials with metallic inclusions – investigation of mechanical and phycochemical properties with experimental, theoretical and calculation methods (NAMCO). Coordination by the National Technical University of Athens; coordinator of the research group of the University of Ioannina (2011-2013, budget 521.739 Euros).
11. RESEARCH COMMITTEE OF THE UNIVERSITY OF IOANNINA (Code 80783):
Writing of textbook on glass-ceramic materials. (budget 2.500 Euros – donation of the Metallurgical Company of Greece, LARCO).

Member of the Editorial Board of Journals:

- Co-Editor (with Assoc. Prof. Dr. Theofilos Colettis, Medical School, Univ. Ioannina) in the Special Issue of *Current Pharmaceutical Design* (Impact Factor 4.774) entitled “*Novel strategies for cardiac repair post-myocardial infarction*” (it will appear in 2013).
- Editorial Board of the Conference Papers in Materials Science (<http://www.cpis.com/journals/ms/editors/>).
- Editorial Board of the Open Crystallography Journal (ISSN 1874-8465) (until 2010).
- Co-Editor (with Ecaterina Andronescu, Jared M. Brown, Faik Oktar, Joshua Chou, Akiko Obata), in the Special Issue of the *Journal of Nanomaterials* (Volume 2016), entitled “*Nanomaterials for Medical Applications: Benefits and Risks*” (Editorial Article ID 8284319, 2 pages).
- Member of the Scientific Committee of the journal Transactions of Foundry Research Institute.

Journals reviewer:

1. Biomaterials (IF 7.882)
2. Journal of Biomedical Materials Research A&B (IF 5.264)
3. Journal of Materials Chemistry (IF 5.099)
4. Acta Biomaterialia (IF 4.822)
5. Journal of the European Ceramic Society (IF 2.574)
6. Biomedical Materials (IF 2.467)
7. Materials Chemistry and Physics (IF 2.353)
8. Journal of Solid State Chemistry (IF 2.261)
9. Journal of Biomaterials Applications (IF 2.246)
10. Journal of the American Ceramic Society (IF 2.167)
11. Materials Research Bulletin (IF 2.145)
12. Journal of Alloys and Compounds (IF 2.134)
13. Materials Letters (IF 2.117)
14. Journal of Physics D-Applied Physics (IF 2.105)
15. Bioprocess and Biosystems Engineering (2.060)
16. Surface Science (IF 2.010)
17. Electrochemical and Solid-State Letters (IF 1.967)
18. Journal of Materials Science (IF 1.855)
19. Interface Science (it is now part of the J.Mater.Sci., IF 1.855)
20. Solid State Sciences (IF 1.828)
21. Journal of Luminescence (IF 1.795)
22. Microscopy Research and Technique (IF 1.712)
23. Journal of Thermal Analysis and Calorimetry (IF 1.600)

24. Journal of Materials Processing Technology (IF 1.567)
25. Journal of Non-Crystalline Solids (IF 1.483)
26. Journal of Materials Research (IF 1.395)
27. Journal of Physics and Chemistry of Solids (IF 1.381)
28. International Journal of Photoenergy (IF 1.345)
29. Materials Science and Engineering B (IF 1.100)
30. Vacuum (IF IF 1.048)
31. Metallurgical and Materials Transactions B (IF 0.963)
32. Journal of Materials Science: Materials in Electronics (IF 0.927)
33. Journal of Materials Engineering and Performance (IF 0.639)
34. Physics and Chemistry of Glasses (IF 0.500)
35. Ceramics Transactions (IF 0.000)
36. Materials Science Forum (IF 0.000)
37. Biomaterials Science (it will first appear in 2013)

Administration duties in the University of Ioannina

1. Vice-President of the Department, Member of the Senate of the University
2. Member of the Assurance of Quality in the University.
3. Scientific coordinator of ERASMUS in the department.
4. Coordinator of the webpage of the department.
5. Coordinator of the "Fellowship Dimitrios Karasoulis".
6. Coordination of Master courses.
7. Member of the Internal Evaluation Committee of the Department.

Writing Notes and Books:

1. "Thermal analysis of metals and alloys". (in Greek)
S.Agathopoulos, G.N.Angelopoulos.
New Laboratory Exercise (for students) in Materials Lab, 39 pages.
Supplement of 8 pages about essay of experiment presentation.
2. "Preparation of ceramic powders with Sol-Gel method" (in Greek)
S.Agathopoulos
Notes of university students, pages 14.
3. "Programming and Control: The case of high temperature furnaces" (in Greek)
S.Agathopoulos
Notes of university students, pages 14.
4. "Biomaterials". (in Greek)
S.Agathopoulos.
Notes (for students), pages 300.
5. "100 Experiments of Chemistry". (in Greek)
S.Agathopoulos.
Pages 104.
6. "Brazing – wettability – interfacial diffusion". (in Greek)
S.Agathopoulos
Notes for university students (pages 54).
7. "Ancient Greek Ceramics". (in English and in Portuguese)
S.Agathopoulos
Notes for university students (pages 47).
8. Laboratory exercises on Biomaterials
S.Agathopoulos.
Notes of university students (under writing).
9. Glass-Ceramics
S.Agathopoulos.
Notes of university students (under writing).
10. Shaping techniques of ceramics, sintering and mechanical properties
S.Agathopoulos.
New Laboratory Exercise (for students) in Materials Lab, 30 pages.
Supplement of 21 pages about essay of experiment presentation.
11. Technology of Ceramics and Glasses.
S.Agathopoulos.
Special volume that gathers 4-page essays of students (pages 131).

Assistance in Book Editions (in greek):

1. D.C.Papamantellos, "Special Subjects of Metallurgy", Patras 1990.
2. "Guide of Studies in Chemical Engineering Department of University of Patras", 1992-1993.
3. G.H.Sarantoglou, "Mechanical, Electrical and Electronic Designs", Patras 1994.

Teaching:

A. Chemical Engineering Dept. Univ.Patras, Greece (1989-1994):

1. Introduction to Materials Science (4 semesters).
2. Ceramics and Inorganic Binding Materials (3 semesters).
3. Materials Science and Technology (1 semester).
4. Laboratory of Physical Chemistry and Materials (7 semesters)
5. Laboratory of Metallurgy and Materials (1 semester).
6. Diploma Theses of 24 students.

B. Ceramic and Glass Engineering Department, Univ.Aveiro, Portugal (2000-2005):

1. Materials Joining (1 semester).
2. Advanced ceramics (1 semester).
3. Interfacial interactions between bioceramics and body substances (lecture to post-graduate courses, M.Sc. & Ph.D., in Biomedical Engineering – Univ.Porto).
4. Diploma Thesis of 1 student.
5. Master Thesis of 1 student.

C. Materials Science and Engineering Dept., Univ. Ioannina, Greece (2006-):

1. Laboratories of General Chemistry
2. Materials Characterization Methods and Techniques
3. Ceramics
4. Technology of Ceramics and Glasses
5. Advanced Ceramics
6. Bioceramics
7. Biomaterials
8. Laboratory of Materials I “Introduction to Materials”
9. Laboratory of Materials II “Ceramics and Composites”
10. Master Courses

- Diploma Theses: Supervision 33 students, Jury 87 students.
- Master Theses: Supervision 12 students (7 accomplished), Jury of 10 students.
- Ph.D. Theses: Supervision 3 students (all accomplished), Member of the supervising committee 3 student (2 accomplished), Jury of 16 students.

Reserach records:

- **Publications in International Refereed Journals** : 225
Citations : 3.500
h-index : 33

(Data were obtained from SCOPUS)

- **Other Referred Publications - Reports – Thesis** : 19
- **Publications in Conferences and Lectures** : 260
Invited lectures : 15